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South, Winamac, IN 46996 (US). **HUNT, Bryan** [US/US];  
265 West 950 South, Star City, IN 46985 (US).

(74) Agent: **STERN, Martin, L.**; Michael Best & Friedrich  
LLP, 401 N. Michigan Avenue, Suite 1900, Chicago, IL  
60611 (US).

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(71) Applicant (*for all designated States except US*): **THE  
BRAUN CORPORATION** [US/US]; 631 West 11th  
Street, P.O. Box 310, Winamac, IN 46996 (US).

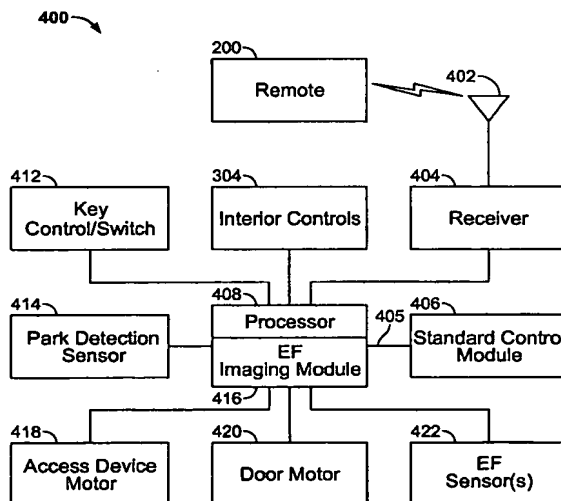
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **RAABE, Timothy**  
[US/US]; 628 South Riverside Drive, Winamac, IN 46996  
(US). **HEIGL, David** [US/US]; 532 Davis, Logansport,  
IN 46947 (US). **HEIGL, Keith** [US/US]; 6518 West 300

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(54) Title: SYSTEM AND METHOD FOR ELECTRIC FIELD SENSING OF A VEHICLE MOBILITY ACCESS DEVICE



(57) Abstract: Systems and methods are provided for electric field sensing of the presence of an object on a mobility access device such as a wheelchair lift or ramp, and disabling the device from operating. One or more electrodes are installed on a wheelchair lift or ramp to produce electric fields. An electric field imaging device receives inputs from the electrodes, and is able to discriminate changes in the electric field. By connecting the electric field imaging device to a controller, several electrodes may be selected sequentially to detect an object in various locations, or to determine an object's size and shape. When the electric field imaging device senses an object, the controller, in communication with the electric field imaging device, can disable a vehicle function such as stowage of a wheelchair lift, so that user injuries are prevented.

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